

L05 - Using Arrays

1. Create a new class named `UsingArrays`.
2. Using the lecture slides as a guide, declare and initialize an array of four integers that contains the values `3, 7, 13, and 18`.
3. Using a for loop, display each of the four array values and the square of that value.

Sample Dialog

```
3 squared is 9
7 squared is 49
13 squared is 169
18 squared is 324
```

4. Add a for loop and display each of the four array values. Also, if the value is less than 10, display the message `less than 10`. If the value is greater than 10 but less than 15, display `greater than 10 and less than 15`. If the value is greater than 15, display `greater than 15`.

Sample Dialog

```
3 is less than 10
7 is less than 10
13 is greater than 10 and less than 15
18 is greater than 15
```

5. Write a program called `ArrayTest` that will do the following actions (complete each action before moving on to the next one):
 - Create an array in the main method that contains the following integer values:
 - 34
 - 2
 - 14
 - 34
 - 58
 - 4
 - Print out all of the array values using a for loop
 - Find and print the array element with the maximum value
 - Find and print the average value of the elements in the array
 - Copy three elements from this array, starting at the second element, into a new array of size 3

